

Figure 1

20240629 16:05:03

IGSF -

α IFN-2	-	+	+	+	+	+	+	+	+	
mAb	-	-	IgG	9F3	3B7	3B7	1D3	1D3	1F3	1F3
(μ g/ml)			1	1	1	10	1	10	1	10

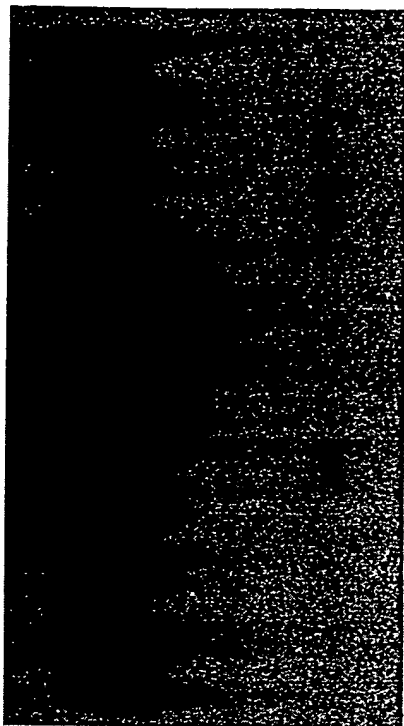


Figure 2

0346397-100000

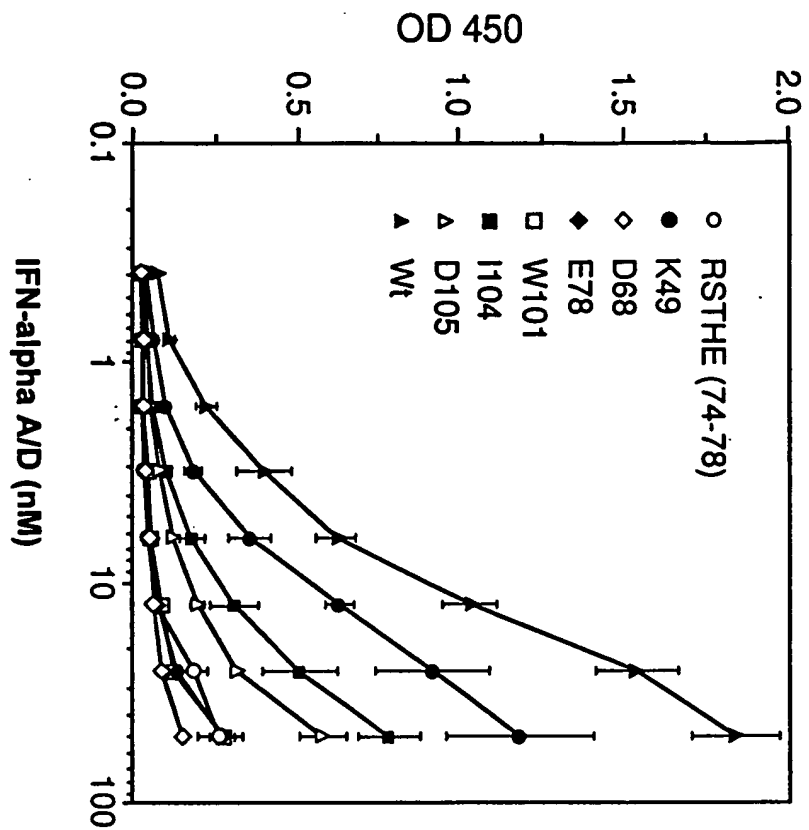


Figure 3A

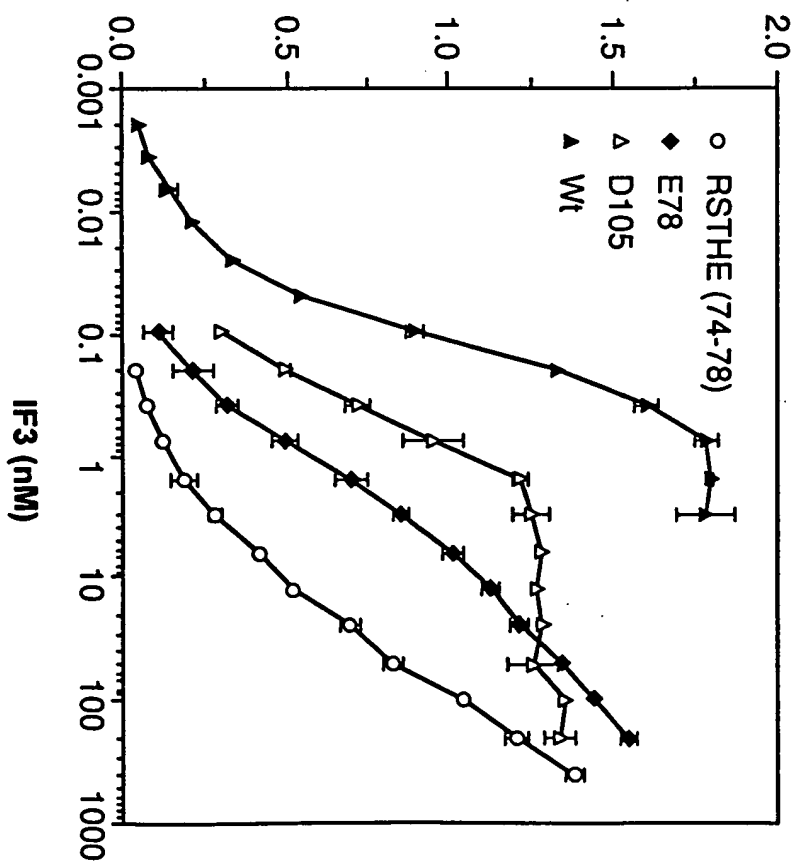
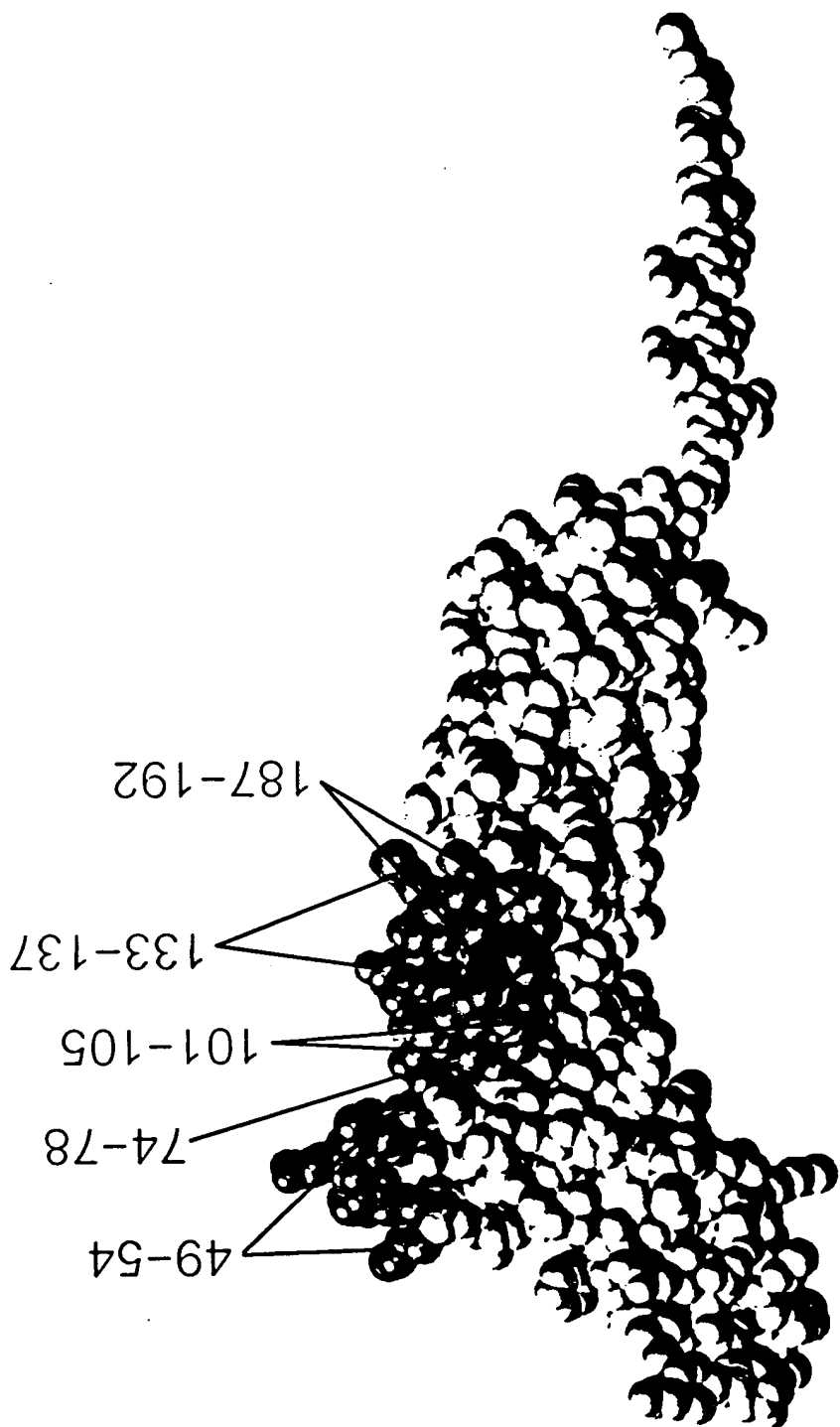


Figure 3B

Figure 4



1 GAATTCCTAA AATAGCAAA GATGCTTTG AGCCGAATG CCTTCATCGT CAGATCACTT AATTGGTTC TCATGGTGA TATCAGCCTC GTGTTGGTA
CTTAAGGATT TTATCGTTT CTACGAAAC TCGGCTTTAC GGAAGTAGCA GTTAGTGAA TTAACCAAG AGTACCACAT ATAGTCGAG CACAACCAT
11e

human alpha beta receptor

101 TTTCATATGA TTCGCTGAT TACACAGATG AATCTTGCAC TTTCAGATA TCATTGGAA ATTTCCGTC CATCTTATCA TGGGAATTAA AAAACCACTC
AAGTAACT AAGCGACTA ATGTGTAC TTAGAAGTG AAGTTCTAT AGTAACGCTT TAAAGGCCAG GTAGAATAGT ACCCTTAATT TTTGGTGAG

2 SerTyraS pserProasp TyrThrAspG luserCysTh rphelysile SerleuArgA snpheargse rleleuser TrpGluleul ysAsnHisSer

201 CATTGTACCA ACTCACTATA CATTGCTGA TACAATCATG AGTAACCAAG AAGATTGAA GGTGGTTAAG AACTGTGCAA ATACCACAAG ATCATTGTG
GTAACATGGT TGAATGATAT GTAACGACAT AGTTAGTAC TCATTGGTC TTCTAACTT CCACCAATTC TTGACACGTT TATGGTGTTC TAGTAACA
35 IleValPro ThrHisTyrT hrleuleuTy rThrileMet SerLysProG lAspLeuLy sValValLys AsnCysAlaA snThrThrAr gSerPheCys

301 GACCTCACAG ATGAGTGAG AAGCACACAC GAGGCTATG TCACCGTCTT AGAAGATTG AGCGGACAA CAACGTTGT CAGTTGCTCA CACAATTCT
CTGGAGTGT TACTACCTC TTCGTGTG CTCCGATAC AGTGACAGA TCTTCTAAG TCGCCCTGT GTTGCAACAA GTCAACGAGT GTGTTAAAGA
68 Aspleuthra spglutPrar gserThrHis GluAlaTyrV alThrValle uGluGlyPhe SerGlyAsnT hrThrleuPh eserCysSer HisAsnPhetPr

401 GGCTGGCCAT AGACATGTCT TTGAACCAC CAGATTGGA GATTGTGGT TTTACCAACC ACATTAATGT GATGGTGAAT TTTCATCTA TTGTTGAGGA
CCGACCGGTA TCTGTACAGA AACTGTGTG GTCTCAACT CTACACACCA AATGGTTGG TGTAAATTACA CTACCACTT AAAGTAGAT AACAACTCCT
102 LeuAlaIl eAspMetSer pheGluProp roGluPheGl uIleValGly PheThrAsnH isIleAsnVa lMetValLys PheProserI leValGluGlu

501 AGAATTACAG TTTGATTAT CTCTGTCAT TGAAGACAG TCAGAGGGA TTGTTAAGA GCATAAACC GAAATAAAG GAAACATGAG TGGAAATTTC
TCTTAATGTC AACTAAATA GAGACAGTA ACTCTGTG AGTCTCCCTT AACATTTCTT CGTATTGGG CTTATTTTC CTTGTACTC ACCTTTAAAG
135 GluleuGln pheAspleus erleuValIl egluGluGln SerGluGlyI leValLysLy shisLysPro GluileLysG lYAsnMetSe rGlyAsnPh

601 ACCTATATCA TTGACAAGT AATCCAAC ACGAATACT GTGTATCTGT TTATTAGAG CACAGTGATG AGCAAGCAGT AATAAGTCT CCCTTAAAT
TGATATAGT AACTGTTCAA TTAAGTTTG TGCTGATGA CACATAGACA AATAATCTC GTGTCACTAC TCGTTCGTCA TTATTTCAGA GGGAATTTA
68 ThrTyrlleI leAspLysle uIleProasn ThrAsnTyrC ysValSerVa lTyrlleuGln HisserAspG lGluAlaVa lIleLysSer ProleuLysCys

701 GCACCTCTCT TCCACCTGGC CAGGAATCAG AATCAGCAGA ATCTGCCGAC AAAACTCACA CATGCCACC GTGCCAGCA CCTGAATCC TGGGGGAGCC
CGTGGAGGA AGGTGAGCCG GTCCTTAGTC TTAGTCGTCT TAGACGGCTG TTTTGAAGT GTACGGGTG CACGGTCTG GACTTGAGG ACCCCCTGG
202 Thrleule uProProGly GlngluserG luserAlaGl uSerAlaAsp LysThrHisT hrcysProPr oCysProAla ProGluLeul euglyGlyPro
IggI

801 GTCAGTCTTC CTCTTCCCC CAAAACCCAA GGACACCTC ATGATCTCCC GGACCCCTGA GGTCAATGC GTGGTGTTG ACGTGAGCCA CGAAGACCT
CAGTCAGAG GAGAGGGGG GTTTGGGTT CCTGTGGAG TACTAGAGGG CCTGGGACT CCAGTGTAAG CACCACACC TGCACCTGGT GCTTCTGGGA
235 SerValPhe LeupheProp roLysProLy sasPThrleu MetIleSera rglThrProGl uValThrCys ValValVala spValSerHl sgluAspPro

Figure 5A

0915599 1.00599

901 GAGGTCAAGT TCAACTGGTA CGTGACGGC GTGAGGTGC ATATGSCAA GACAAAGCCG CCGGAGGAGC AGTACAACAG CACGTACCAG GTGTCACGC
 CTCCAGTTCA AGTTGACCAT GCACCTGCC CACCTCCAG TATTACGGT CTGTTTCGGC GCCCTCCTCG TCATGTTGTC GTGCATGGCT CACCACTGCC
 268 GluValLysP heAsnTrpTy rValAspGly ValGluValH iAsnAlaLys sThrLysPro ArgGluGluG IntYAsnSe rThrTyArg ValValSerVal
 1001 TCCTCACCGT CCTGCACCAG GACTGGCTGA ATGGCAAGGA GTACAAGTGC AAGTCTCCA ACAAAAGCCCT CCCAGCCCCC ATCGAGAAA CAATCTCCA
 AGGAGTGGCA GGACGTGTC CTGACCGACT TACCGTTCTT CATGTTACAG TTCCAGAGGT TGTTCGGGA GGGTCGGGG TAGCTCTTTT GGTAGAGGTT
 302 LeuThrVa lLeuHisGln AspTrpLeu aGlyLysG lTyrLysCys LysValSerA snLysAlaLe uProAlaPro iLeuLysT hIleSerLys
 1101 AGCCAAAGGG CAGCCCCGAG AACCAAGGT GTACACCCTG CCCCACATCC GGAAGAAGAT GACCAAGAAC CAGGTCAACC TGACCTGCTT GGTCAAAGGC
 TCGGTTTCCC GTCGGGGCTC TTGGTGCCA CATGTGGGAC GGGGGTAGGG CCTTCTCTA CTGTTCTTG GTCCAGTCGG ACTGAGCGGA CCAGTTTCCG
 335 AlaLysGly GlnProArg lProGlnVa lTyrThrLeu ProProsera rglGluGlu tThrLysAsn GluValSerL euThrCysLe uValLysGly
 1201 TTCTATCCCA GCGACATCGC CGTGAGTGG GAGAGCAATG GGCAGCCGGA GAACAACCTAC AAGACCACGC CTCCCCTGCT GGACTCCGAC GGTCTCTT
 AAGATAGGGT CGCTGTAGCG GCACCTCAC CTCTCGTTAC CCGTCGGCT CTGTGTGATG TTCTGGTGGC GAGGGCACGA CCTGAGGCTG CCGAGGAAGA
 368 PheTyrPro sPheAspIleAl aValGluTrp GluSerAsnG lylGlnProG lAsnAsnTyr LysThrThrP roProValLe uAspSerAsp GlySerPhePhe
 1301 TCCTCTACAG CAAGCTCAC GTGGACAAGA GCAGGTGGCA GCAGGGGAAC GTCTTCTCAT GCTCCGTGAT GCATGAGGCT CTGCACAAAC ACTACACGA
 AGGAGATGTC GTTCGAGTGG CACCTGTTCT CGTCCACCGT CGTCCCCTTG CAGAAGATGA CGAGGCACCTA CGTACTCCGA GACGTGTTGG TGAATGTCGT
 402 LeuTyrSe rLysLeuThr ValAspLys sPheArgTrpG lGlnGlyAsn ValPheSerC ysserValme thisGluAla LeuHisAsnH iLysrThrGln
 1401 GAAGAGCCTC TCCCTGCTC CGGGTAATG AGTGCAGCG CCGTAGATC GACCTGCAGA AGCTTAGAAC CGAGGGGCG CCATGGCCCA ACTGTTTAT
 CTTCCTCGAG AGGACAGAG GCCCATTTAC TCACGTGCC GGGATCTCAG CTGACGTCT TCGAATCTTG GCTCCCCGGC GGTACCGGGT TGAACAATA
 435 LysSerLeu SerLeuSerP rogilyLysOP * (SEQ ID NO. 26)
 sv40 early
 poly A

1501 TGCAGCTTAT AATGTTACA AATAAGCAA TAGATCACA AATTTCACA ATAAAGCAT TTTTCACTG CATTCAGTT GTGTTTGT CAAACTCATC
 ACGTCGAATA TTACCAATGT TTAITTCGTT ATCGTAGTGT TTAAGTGT TATTTCGTA AAAAAGTGA GTAAATCAA CACCAACAG GTTGAAGTAG
 1601 AATGATCTT ATCATGTCTG GATCGATCGG GAATTAATTC GCGCAGAC CATGGCTGA AATACTCTT GAAAGAGGA CTTGGTAGG TACCTTCTGA
 TTACATAGAA TAGTACAGAC CTAGCTAGCC CTTAATTAG CCGCGTCTG GTACCGACT TTATTGAGA CTTTCTCTT GAACCAATCC ATGGAAGACT
 sv40 origin

1701 GGCAGAAGA ACCAGCTGTG GAATGTGTGT CAGTTAGGT GTGAAAGTC CCCAGGCTCC CCAGCAGGA GAAATATGCA AAGCATGCAT CTCAATTAGT
 CCGCTTCT TGGTCGACAC CTTACACACA GTCAATCCA CACTTTTCAG GGTCCGAGG GGTCTCCGT CTTCAATACG TTGCTACGTA GAGTTAATCA
 1801 CAGCAACAG GTGTGAAG TCCCAAGCT CCCAGCAG CAGAATATG CAAGCATGC ATCTCAATTA GTCAAGCAAC ATAGTCCCG CCCTAAGTCC
 GTCGTGTGTC CACACCTTTC AGGGGTCCGA GGGGTCTCC GTCTTCATAC GTTTCGTACG TAGAGTTAAT CAGTCGTTGG TATCAGGGCG GGGATTGAGG

Figure 5B

1901 GCCCATCCCG CCCCTACTC CGCCCAATTC CGCCCATCT CCGCCCATG GCTGACTAAT TTTTTTAT TATGAGAGG CCGAGGCCGC CTCGGCCTCT
 CGGGTAGGGC GGGGATTGAG GCGGCTAAG GCGGGTAGA GCGGGGTAC CGACTGATTA AAAAAATTA ATAGCTCC GGTCCGGCG GAGCCGAGA

 2001 GAGCTATTC AGAAGTAGTG AGGAGGCTTT TTTGAGGCC TAGCTTTTG CAAAAGCTG TTAACAGCTT GGCCTGGCC GTCTTTTAC AACGCTGA
 CTCGATAAGG TCTTCATCAC TCCTCCGAAA AACCTCCGG ATCCGAAAC GTTTTTCGAC AATTGTCGAA CCGTGACCG CAGCAAAATG TTGCAGACT
 start pUC18

 2101 CTGGGAAAC CTTGGCGTTA CCCCACTTAA TCGCCTTGA GCACATCCC CCTTCGCCAG CTGGCGTAAT AGCGAAGAG CCCGCACCA TCGCCCTCC
 GACCTTTTG GAGCCGCAAT GGGTTGAAT AGCGAAGCT CGTGTAGGGG GGAAGCGGT GACCGCATTA TCGCTTCTC GGGCGTGCT AGCGGGAAG

 2201 CAACAGTGC GTAGCCTGAA TGGCGAATGG CGCCTGATGC GGTATTTCT CCTTACGCAT CTGTGCGTA TTTCAACACC CATACGTCAA AGCAACATA
 GTTGTCACG CATCGACTT ACCGCTTACC GCGGACTACG CCATAAAGA GGAATGCGTA GACACGCCAT AAAGTGTGGC GTATGCAATT TCGTTGGTAT

 2301 GTACGCGCC TGTAGCGCG CATTAGCGC GCGGGGTGT GTGTTACGC GCAGCGTGAC CGCTACACTT GCCAGCGCCC TAGCGCCGC TCCTTTCGT
 CATGCGCGG ACATCGCCG GTAATTGCG CCGCCACAC CACCAATGCG CGTGCACCTG GCGATGTGA CCGTCGCGG ATCGCGGGG AGGAAAGCA

 2401 TTCTTCCCT CTTTCTCGC CAGTTCGCC GCGTTTCCC GTCAAGCTCT AAATCGGGGG CTCCTTTAG GGTTCGATT TAGTCTTTA CGGCACCTG
 AAGAAGGAA GAAAGAGCG GTGCAAGCG CCGAAGGGG CAGTTCGAGA TTAGCCCCC GAGGGAATC CCAAGGCTAA ATCAGGAAAT GCCGTGAGC

 2501 ACCCAAAAA ACTGATTTG GGTATGTT CACGTAGTG GCCATCGCCC TGATGACGG TTTTTCGCC TTGACGTTG GAGTCCAGT TCTTTAATG
 TGGGTTTTT TGAATAAC CCACTACCA GTGCATCAC CGGTAGCGG ACTATCTGCC AAAAAGCGG AAAGTCAAC CTCAGGTGA AGAAATATC

 2601 TGACTCTTG TTCCAACCTG GAACAACACT CAACCTATC TCGGGCTATT CTTTGATTT ATAAGGAAAT TTGCCGATTT CGGCTATTG GTTAAAAAT
 ACCTGAGAAC AAGTTTGAC CTGTGTGA GTTGGGATAG AGCCGATTA GAAACTTAA TATTCCTTA AACGCTTAA GCCGATTAAC CAATTTTAA

 2701 GAGCTGATT AACAAAAAT TAAAGCGAAT TTTAACAAA TATTAAGTT TACAATTTA TGTGCACTC TCAGTACAA CTGCTGTAT GCCCATAGT
 CTCGACTAA TTGTTTTAA ATGCGCTTA AAATGTTTT ATAATTGCA ATGTAAAT ACCACGTAG AGTCATGTTA GACGAGACTA CGCGTATCA

 2801 TAAAGCACT CCGCTATCG TACGTACTG GGTATGGCT GCGCCCCGAC ACCCGCAAC ACCGCTGAC GCGCCCTGAC GGGCTGTCT GTCCCGCA
 ATTCGTTGA GCGATAGCG ATGCACTGAC CCAGTACCA CCGGGGCTG TGGCGGCTG TGGCGACTG CCGGGGACTG CCCGAACA GAGGGCGT

 2901 TCCGCTTACA GACAAGTGT GACGCTCC GGAAGCTGA TGTGACAGG GTTTTACCG TCATCACCA AACGCGAG GCAATTTCT TGAAGCGAA
 AGGCAATGT CTGTCGACA CTGGCAGAG CCGTCGAGT ACACAGTCT CAAAGTGGC AGTAGTGCT TTGCGCGCTC CGTCATTAAGA ACTTCTGCTT

 3001 AGGGCTCGT GATACGCTA TTTTATAGG TTAATGCTAT GATAATAATG GTTCTTAGA CGTCAGGTGG CACTTTTCG GGAATGTGC GCGAAGCCC
 TCCCGAGCA CTATCGGAT AAAAATATCC AATTAAGTA CTATTATTAC CAAAGATCT GAGTCCACC GTGAAAGCC CTTTACAG CCGCTTGGG

Figure 5C

0916293 . 400593

3101 TATTGTGTTA TTTTCTTAA TACATTCAA TATGTATCCG CTCATGAGAC AATTAACCCTG ATAAATGCTT CAATATATAT GAAAAAGGA GAGTATAGT
ATAACAAGAT AAAAGATTT ATGTAAAGTT ATACATAGGC GAGTACTCTG TTATTTGGAC TATTACGAA GTTATTATTA CTTTTCCTT CTCATFACTA
3201 ATTCAACATT TCCGTGTGCG CCTTATTCCT TTTTTCGCG CATTTTGCTT TCCGTGTTTT GCTCACCCAG AAACGCTGGT GAAAGTAAAA GATGCTGAAG
TAAGTTGTAA AGGCACAGCG GGAATTAAGG AAAAAACGCC GTAAACGGA AGACAAAAA CGAGTGGGTC TTTCGCACCA CTTTCATTTT CTACGACTTC
3301 ATCAGTTGGG TGCACGAGTG GGTATACATCG AACTGATCT CAACAGCGGT AAGATCCTTG AGAGTTTTCG CCCCAGAAAG CATTTCCTTA TGATGAGCAC
TAGTCAACCC ACGTGTCTAC CCAATGTAGC TTGACCTAGA GTTGTGCCA TTCTAGAAC TCTCAAAAGC GGGGCTTCTT GCAAAAGTT ACTACTCGTG
3401 TTTTAAAGTT CTGCTATGTG GCGCGTATTT ATCCCGTGAT GACGCCGGGC AAGAGCACT CGGTGCGCCG ATACACTATT CTCAGAATGA CTGTGTTGAG
AAAAATTCAA GACGATACAC CGCGCCATTA TAGGCACCTA CTGCGGCCG TTCTCGTTGA GCCAGCGCGG TATGTGATTA GAGTCTTACT GAACCAACTC
3501 TACTCACCCAG TCACAGAAAA GCATCTTACG GATGGCATGA CAGTAAGAGA ATTATGAGT GCTGCCATTA CCATGAGTGA TAACACTGCG GCCAACTTAC
ATGAGTGGTC AGTGTCTTTT CGTAGAATGC CTACCGTACT GTCAATCTCT TAATACGTCA CGACGTATT GGTACTCACT ATTGTGACGC CGGTTGAATG
3601 TTCTGACAAC GATCGGAGGA CCGAAGGAGC TAACCGCTTT TTTGCACAAC ATGGGGATC ATGTAAGTCTG CCTGTATCGT TGGGAACCGG AGCTGAATGA
AAGACTGTGG CTAGCCTCCT GGCCTTCCTG ATTGGCGAAA AAACGTGTTG TACCCCTAG TACATTGAGC GGAAGTACGA ACCCTTGCGC TCGACTTACT
3701 AGCCATACCA AACGACGAGC GTGACACACC GATGCCAGCA GCAATGGCAA CAACGTTGCG CAACATATTA ACTGGCGAAC TACTTACTCT AGCTTCCCGG
TCGGTATGGT TTGCTGCTCG CACTGTGGTG CTACGGTGT CGTTACCGTT GTTGCAACGC GTTTGATAAT TGACCGCTTG ATGAATGAGA TCGAAGGGCC
3801 CAACAATTAA TAGACTGGAT GGAAGCGGAT AAAGTTGCA GACCACTTCT GCGCTCGGCC CTTCGGGCTG GCTGTTTAT TGCTGATAAA TCTGAGCCG
GTTGTTAATT ATCTGACCTA CCTCCGCTTA TTCAACGTC CTGTGAAGA CGCGAGCCGG GAAGCCGAC CGACCAATA ACGACTATT AGACTCGGC
3901 GTGAGCGTGG GTCTCGCGGT ATCAITGCA GACTGGGGCC AGATGGTAAG CCCTCCCGTA TCGTAGTAT CTACACGAG GGAAGTCAGG CAACTATGGA
CACTCGCACC CAGAGCGCA TAGTAACGTC GTGACCCCGG TCTACCAITC GGAAGGGCAT AGCATCAATA GATGTGCTGC CCTCAGTCC GTTGATACCT
4001 TGAACGAAT AGACAGATCG CTGAGATAGG TGCCTCACTG ATTAAGCAIT GGTAACTGTC AGACCAAGTT TACTCATATA TACTTAGAT TGATTTAAAA
ACTTGCTTTA TCTGTCTAGC GACTCTATCC ACGAGGTGAC TAAITGTTAA CCAITGACAG TCTGTTCAA ATGAGTATAT ATGAATCTA ACTAAATTT
4101 CTTCAATTTT AATTTAAAG GATCTAGGTG AAGATCCTTT TTGATPATCT CATGACCAAA ATCCCTTAA GGTAGTTTC GTTCCACTGA GCGTCAGAC
GAAGTAAAA TTAATTTTCT CTAGATCCAC TTCTAGAAA AACTATTAGA GTACTGGTTT TAGGGAATGG CACTCAAAAG CAAGGTGACT CGCAGTCTGG
4201 CCGTAGAAAA GATCAAAAGG TCTTCTGAG ATCCTTTTTT TCTGCGGCTA ATCTGCTGCT TGCAACAATA AAAACCAACG CTACCAAGCG TGGTTGTTT
GGCATCTTT CTAGTTTCT AGAAGAACTC TAGAAAAAAA AGACCGCAT TAGACGACGA ACGTTGTTT TTTTGTGGC GATGTGCGC ACCAAACAAA
4301 GCCGATCAA GAGCTACCAA CTCCTTTTCC GAAGTAACT GGCTTCAGCA GAGCGAGAT ACCAAATACT GTCTTCTAG TGTAGCCGTA GTTAGGCCAC
CGCCTAGTT CTCGATGGTT GAGAAAAAGG CTTCCATGTA CCGAAGTGT CTCGCGTCTA TGGTTATGA CAGGAAGATC ACATCGGCAT CAATCCGGTG

Figure 5D

4401 CACTTCAGA ACTCTGAGC ACCGCTACA TACCTGCTC TGCTAATCCT GTTACCAGTG GCTGCTGCCA GTGGCGATTA GTCTGTCTT ACCGGTTGG
 GTGAAGTCT TGAGACATCG TGGCGATGT ATGAGCGAG ACGATTAGGA CAATGTGAC CGACGACGGT CACCGTATT CAGCACAGAA TGGCCCAACC

4501 ACTCAAGACG ATAGTTACCg GATAAGCGC AGCGTGGG CTGAACGGGG GGTTCGTCA CACAGCCCAG CTGGAGCGA ACGACCTACA CCGAAGTGA
 TGAGTCTGC TATCAATGGC CTATTCGCG TCGCAGCCC GACTTGCCC CCAAGCAGGT GTGTGGGTC GAACCTCGCT TGCTGATGT GGCTTGACTC

4601 ATACCTACAG CGTGACATT GAGAAAGCGC CAGCTTCCC GAAGGAGAA AGCGGACAG GTATCCGGTA AGCGGAGGG TCGGAACAGG AGAGCGCAGC
 TATGATGTC GCACTCGTAA CTCTTCGCG GTGCGAAGG CTTCCTCTT TCCGCTGTC CATAGGCAT TCGCGTCCC AGCCTGTCC TCTCGCGTGC

4701 AGGAGCTTC CAGGGGAAA CGCCTGSTAT CTTTATAGTC CTGTGGGTT TCGCCACCTC TGACTTGAGC GTCGATTCTT GTGATGCTCG TCAGGGGGGC
 TCCCTCGAAG GTCCCCCTT GCGGACCATA GAAATATCAG GACAGCCCA AGCGGTGAG ACTGAAGTGC CAGCTAATAA CACTACGAGC AGTCCCCCG

4801 GGAGCCTATG GAAAAACGCC AGCAACGGCG CCTTTTACG GTTCCTGGCC TTTTGCTGGC CTTTGTCTCA CATGTTCTTT CCTGCTTAT CCCCTGATTC
 CCTCGATAC CTTTTCGCG TCGTTGCGC GGAATAATGC CAAGGACCGG AAACGACCG GAAACGAGT GTACAAGAAA GGACGCAATA GGGGACTAAG

4901 TGTGATAC CGTATTACC CTTTGAAGT AGCTGATACC GCTCGCCGA GCCGAACGAC CAGCGCAGC GAGTCAGTGA GCGAGGAAGC GGAAGAGCGC
 ACACCTATTG GCATAATGGC GGAACCTAC TCGACTATGG CAGCGCGCT CGGCTGCTG GCTCGCGTGC CTCAGTCACT CGCTCCTTGC CTTCTCGCG

5001 CCAATACGCA AACCGCTCT CCCCCGCGT TGGCCGATTC ATTATCCAG CTGGCAGCAG AGGTTCCCG ACTGGAAGC GGGCAGTGAG CGCAACGCA
 GGTATGCGT TTGGCGGAGA GGGGCGCGCA ACCGGCTAAG TAAATAGTC GACCGTCTG TCCAAGGGC TGACCTTTCG CCCGTCACTC GCGTTCGCT

5101 TTAATGTAG TTACCTACT CATTAGGCAC CCCAGGCTT ACACCTTATG CTTCGGCTC GTATGTTG TGGAATTGT AGCGAATAC AATTTCACAC
 AATTACACTC AATGAGTGA GTATCCGTG GGGTCCGAA TGTGAATAC GAAGCGGAG CATACAACAC ACCTTAACAC TCGCTATTG TPAAGTGTG

5201 AGGAACAGC TATGACCATG ATTACGAATT AATTGAGCT CGCCCGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA
 TCCTTGTG ATACTGGTAC TAACTCTTAA TTAAGCTGA GGGGCTGTA ACTAATACT GATCAATAAT TATCATTAAT TAAAGCCCA GTAATCAAGT

from pM1CMV beginning to HindIII, enhancers and promoter

5301 TAGCCCATAT ATGAGTTC GCGTACATA ACTTACGTA AATGCCCCG CTGGCTGACC GCCCAACGAC CCCCCCCAT TGACGTCAAT AATGAGTAT
 ATCGGTATA TACCTCAAG CGCAATGTAT TGAATGCCAT TTACGGGGG GACCGACTGG CGGGTGTCT GGGGCGGGTA ACTGCACTTA TTAATGCATA

5401 GTTCCCATAG TAAGCCCAAT AGGACTTTC CATTGACGTC AATGGGTGA GTATTACGG TAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC
 CAAGGTATC ATTGGGTTA TCCCTGAAG GTAACTGCAG TTACCCACT CATTAATGCC ATTGACGGG TGAACCGTCA TGTAGTTAC ATAGTATAGC

5501 CAAGTACGCC CCCTATTGAC GTCAATGACG GTAAATGGCC CGCTGGCAT TATGCCAGT ACATGACCTT ATGGGACTTT CCTACTTGGC AGTACATCTA
 GTTCATGCGG GGGATAACTG CAGTTACTGC CATTTACCGG GCGACCGTA ATAGGGTCA TGTACTGAA TACCCTGAAA GGATGAACCG TCATGTAGAT

Figure 5E

09156698.100593

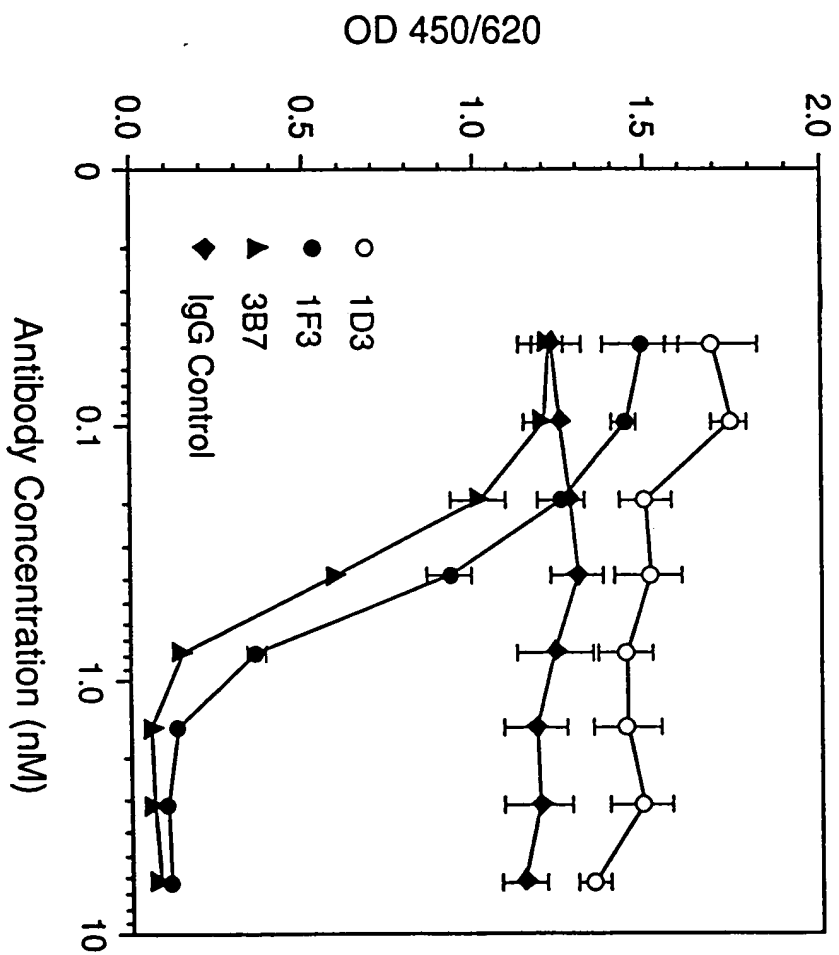


Figure 1

03166998 100598

α IFN-2	-	+	+	+	+	+	+	+	+	+
mAb	-	-	IgG	9F3	3B7	3B7	1D3	1D3	1F3	1F3
(μ g/ml)			1	1	1	10	1	10	1	10
IGSF	-									

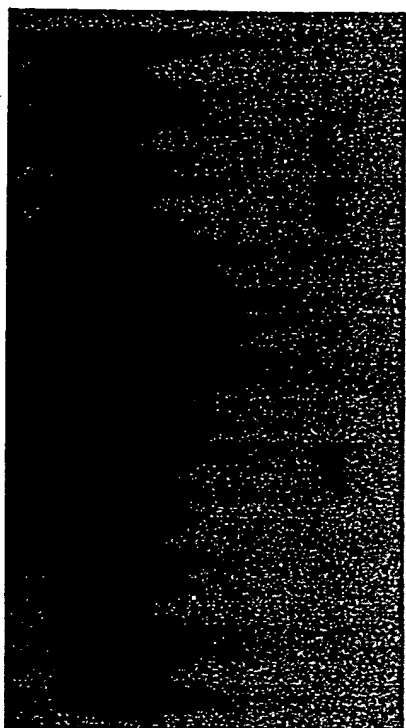


Figure 2

09169293 100593

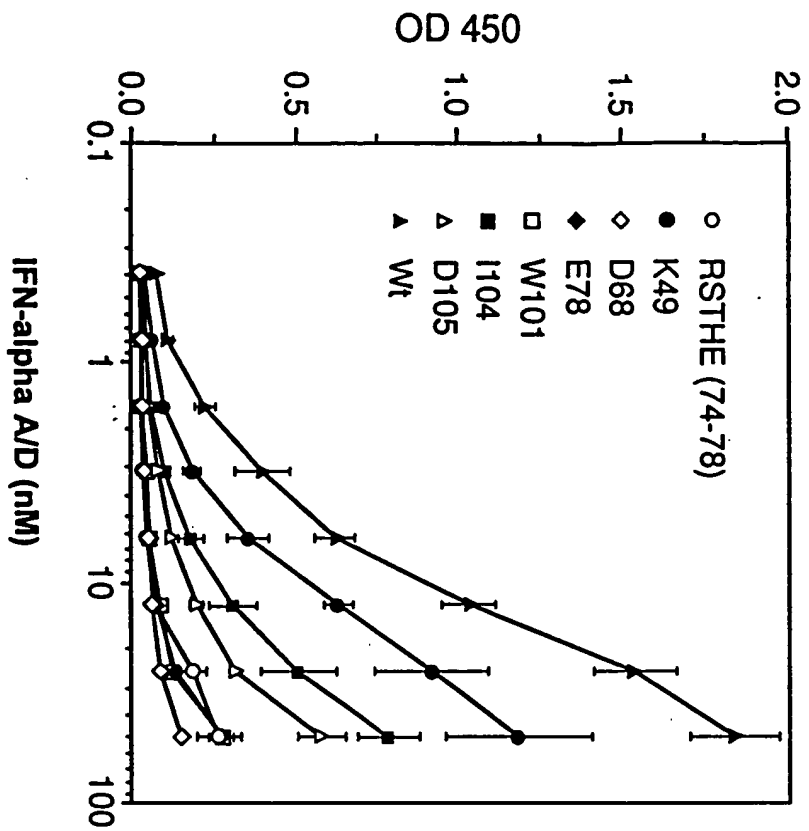


Figure 3A

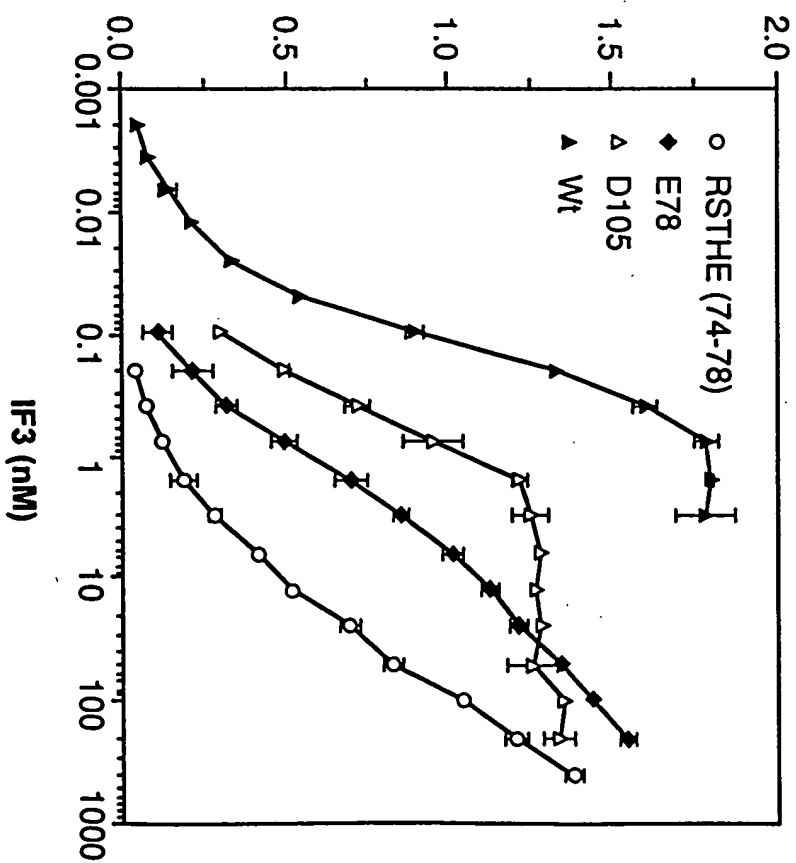


Figure 3B

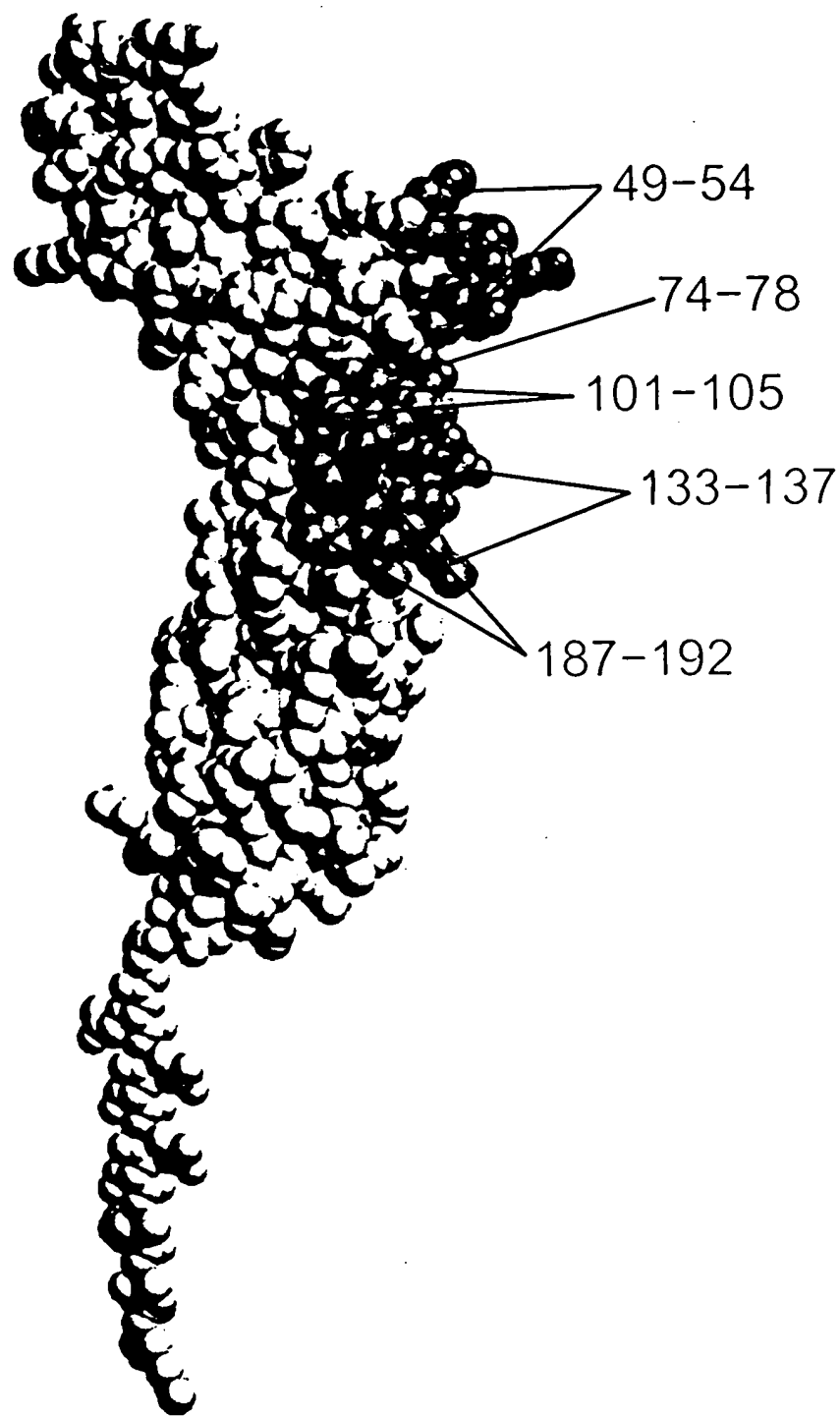


Figure 4

1 GAATTCCTAA AATAGCAAA GATGCTTTG AGCCGAATG CCTTCATCGT CAGATCACTT AATTGGTTC TCATGGTGA TATCAGCCTC GTGTTGGTA
CTTAAGGATT TTAATCGTTT CTACGAAAC TCGGCTTAC GGAATGACA GTCTAGTGA TTAACCAAG AGTACCACAT ATAGTCGAG CACAACCAT
11e

human alpha beta receptor

101 TTTCATATGA TTGCGCTGAT TACACAGATG AATCTTGCAC TTTCAGAGATA TCATTGCCGA ATTTCGGGTC CATCTTATCA TGGGAATTA AAAACCACTC
AAGTATACT AAGCGGACATA ATGTGTCTAC TTAGAAGCTG AAAGTTCTAT AGTAACGCTT TAAAGGCCAG GTAGAATAGT ACCCTAATT TTTGGTGAG
2 SerTyraS pSerProasp TyrThrAspG luserCysTh rPheLysIle SerLeuArgA snPheArgSe rIleLeuSer TyrGluleul yAsnHisSer
201 CATTTGACCA ACTCACTATA CATGCTGTA TACAATCAG AGTAACCAAG AAGATTGAA GGTGGTTAAG AACTGTGCA ATACCAACAAG ATCATTTTGT
GTAACATGTT TGAATGATAT GTAACGACAT AGTTAGTAC TCATTGGTTC TTCTAACTT CCACCAATTG TTGACACGTT TATGGTGTG TAGTAACA
35 ILeValPro ThrHisTyrT hrLeuLeuTy rThrIleMet SerLysProG lAspLeuLy sValValLys AsnCysAlaA snThrThrAr gSerPheCys
301 GACCTCACAG ATGAGTGAAG AAGCACACAC GAGGCTATG TCACCGTCTT AGAAGATTG AGCGGACCA CAACGTTGTT CAGTTGCTCA CACAATTCT
CTGAGATGTC TACTCACCTC TTCGTGTGTG CTCGCGATAC AGTGCAGAGA TCTTCCCTAAG TCGCCCTTGT GTTGCAACAA GTCAACGAGT GTGTTAAGA
68 AspLeuThra spGlutPyr gSerThrHis GluAlaTyrV alThrValle uGluGlyPhe SerGlyAsnT hrThrLeuPh eSerCysSer HisAsnPhetP
401 GGCTGGCCAT AGACATGTCT TTGAACCAAC CAGAGTTTGA GATTGTTGT TTACCAACC ACATTATGT GATGTGMAA TTTCATCTA TTGTTGAGGA
CCGACCGGTA TCTGTACAGA AAACTTGGTG GTCTCAACT CTACACACCA AATGTTGG TGTAAATACA CTACCACTTT AAAGTAGAT AACACTCCT
102 LeuAlaIle eAspMetSer PheGluProP roGluPheGl uIleValGly PheThrAsnH isIleAsnVa lMetValLys PheProserI leValGluGlu
501 AGAATTACAG TTTGATTAT CTCTCGTCAT TGAAGAACAG TCAGAGGGA TTGTTAAGAA GCATAAACC GAAATAAAG GAAACATGAG TGGAAATTTC
TCTTAATGTC AAACTAATA GAGAGCAGTA ACTTCTGTG AGTCTCCCT AACAACTCT CGTATTGGG CTTATTTC CTTGTACTC ACCTTTAAG
135 GluLeuGln PheAspLeus erLeuValIle eGluGluGln SerGluGlyI leValLysLy sHisLysPro GluIleLysG lYAsnMetSe rGlyAsnPhe
601 ACCTATATCA TTGACAAGTT AATCCAAAC ACGAACTACT GTGATCTGT TTATTAGAG CACAGTGATG AGCAAGCAGT AATAAGTCT CCCTTAAAT
TGGATATAGT AACTGTTCAA TTAAGGTTTG TGCTTGATGA CACATAGACA AATAATCTC GTGTCACTAC TCGTTCGTCA TTATTTCAGA GGAATTTTA
38 ThrTyriIleI leAspLysLe uIleProasn ThrAsnTyrC yValSerVa lTyriLeuGlu HisSerAspG lGlnAlaVala lIleLysSer ProLeuLysCys
701 GCACCTTCTT TCCACCTGGC CAGGAATCAG AATCAGCAGA ATCTGCCGAC AAAACTCACA CATGCCACAC GTGCCACAGA CCTGAACCTC TGGGGGAGCC
CGTGGAGGA AGGTGAGCCG GTCCTTAGTC TTAGTCGTCT TAGACGGCTG TTTGAGTGT GTACGGGTGG CACGGGTGCT GGACTTGAGG ACCCCCTGG
202 ThrLeuLe uProProGly GluGluSerG luserAlaGl uSerAlaAsp LysThrHisT hrcysProPr oCysProAla ProGluLeuL euGlyGlyPro
IgG1
801 GTCACTTCTC CTCTTCCCC CAAAACCCA GGACACCCTC ATGATCTCCC GGACCCCTGA GGTACATGTC GTGGTGTTGG ACGTGAGCCA CGAAGACCTT
CAGTCAGAAG GAGAGGGGG GTTTGGGTT CCTGTGGAG TACTAGAGG CCTGGGACT CCAAGTAGAG CACCACACAC TGCACTCGGT GCTTCTGGA
235 SerValPhe LeuPheProP roLysProLy sAspThrLeu MetIleSera rGThrProGl uValThrCys ValValVala spValSerHi sGluAspPro

Figure 5A

09163293 100593

901 GAGTCAAGT TCAACTGTGTA CGTGACGGC GTGAGGTGC ATAATGCCAA GACAAAGCCG CGGGAGGAGC AGTACAACAG CACGTACCGA GTGGTCAGCG
 CTCAGTTC AATTGACCAT GCACCTGCCG CACCTCCACG TATTACGGTT CTGTTTCGGC GCCCTCTCG TCATGTTGTC GTGCATGGCT CACCACTGCG
 268 GluValLysP heAsnTrpTy rValAspGly ValGluValH iAsnAlaLys sThrLysPro ArgGluGluG IntfAsnSe rThiTyArg ValValSerVal
 1001 TCCTCACCGT CCTGCACCAG GACTGGCTGA ATGGCAAGGA GTACAAGTGC AAGGTCTCCA ACAAAAGCCCT CCCAGCCCCC ATCGAAGAAA CCATCTCCA
 AGAGTGGCA GCACGTGTC CTGACCGACT TACCGTTCTT CATGTTCCAG TTCACAGAGT TGTTCGGGA GGGTCGGGG TAGCTCTTTT GGTAGAGTT
 302 LeuThrVa lLeuHisGln AspTrpLeuA snGlyLysG lTyrlsCys lysValserA snlysAlaLe uProAlaPro iLeuLysT hrIleSerLys
 1101 AGCCAAAGG CAGCCCCGAG AACCAACAGT GTACACCCTG CCCCACATCC GGGAAAGAGT GACCAAGAAC CAGGTACCC TGACCTGCTT GGTCAAAGG
 TCGGTTCCC GTCGGGCTC TTGGTGCCA CATGTGGAC GGGGGTAGGG CCCTTCTTA CTGTTCTTG GTCCAGTCGG ACTGACGGA CCAATTCCG
 335 AlaLysGly GlnProArg lProGlnVa lTyThrLeu ProProserA rglGluGlu eThrLysAsn GlnValSerL euthrCysLe uValLysGly
 1201 TTCTATCCA GCGACATCGC CGTGAGTGG GAGAGCAATG GGCAGCCGGA GAACAACCTAC AAGACCACGC CTCCCCTGCT GACTCCGAC GGTCTCTT
 AAGATAGGGT CGGTGACCG GCACCTCAC CTCTCGTTAC CCGTCGGCTT CTGTGTGATG TTCTGGTGG GAGGACGGA CTTGAGGCTG CCGAGGAAGA
 368 PheTyPro sEraSpIleAl aValGluTrp GluSerAsnG lyGlnProGl uAsnAsnTy rLysThrThrp roProValLe uAspSerAsp GlySerPhePhe
 1301 TCCTCTACAG CAAGCTCAC GTGGACAGA GCAGGTGGCA GCAGGGGAAC GTCTTCTCAT GCTCCGTGAT GCATGAGGT CTGCACAAAC ACTACAGCA
 AGGAGATGTC GTTCGAGTGG CACCTGTCTT CGTCCACCGT CGTCCCTTG CAGAAGAGTA CGAGGCACTA CGTACTCCGA GACGTGTTGG TGATGTCGT
 402 LeuTySe rLysLeuThr ValAspLys sEraTyProG l nGlnLysn ValPheSerC ySerValMe thisGluAla LeuHisAsnH iTyThrGln
 1401 GAAGAGCCTC TCCCTGTCTC CGGGTAATG AGTCGACGG CCTTAGAGTC GACCTGCAGA AGCTTAGAAC CGAGGGGGC CCATGGCCCA ACTGTTTAT
 CTTCGCGAG AGGACAGAG GCCCATTTAC TCACGCTGCC GGGATTCAG CTGACGCTT TCGAATCTTG GTCCTCCGGC GGTACCGGGT TGAACAATA
 435 LysSerLeu SerLeuSerP roGlyLysOP * (SEQ ID NO. 26)
 sv40 early
 poly A
 1501 TGCAGCTTAT AATGTTACA AATAAAGCA TAGCATACA AATTTCACA ATAAAGCAT TTTTCACTG CATTCAGTT GTGGTTGTC CAACTCATC
 ACGTCGAATA TTACCAATGT TTAATTCGTT ATCGTAGTGT TTAAGTGT TATTGCTAA AAAAGTGAC GTAGATCAA CACCAACAG GTTGTAGTAG
 1601 AATGTATCTT ATCATGTCTG GATGCATCGG GAATTAATTC GGGCGACGAC CATGGCTGA AATAACCTCT GAAGAAGAA CTGGTTAGG TACCTTCTGA
 TTACATAGAA TAGTACAGAC CTAGTAGCC CTTAATTAG CCGCGTCGTG GTACCGGACT TTATTGAGA CTTTCTCTT GAACCAATCC ATGGAAGACT
 sv40 origin
 1701 GGCAGAAAGA ACCAGCTGTG GAATGTGTGT CAGTTAGGGT GTGGAAGTC CCCAGGCTCC CCAGCAGCA GAAATATGCA AAGCATGCAT CTCATTAGT
 CCGCTTCT TGGTCGACAC CTTACACACA GTCAATCCCA CACCTTTCAG GGGTCGAGG GGTGTCCTT CTTCATACGT TTCGTACGTA GAGTTAATCA
 1801 CAGCAACCAAG GTGTGGAAG TCCCAAGGCT CCCACAGCAG CAGAATATG CAAAGCATGC ATCTCAATTA GTACGAACC ATAGTCCCG CCCTAATCC
 GTCGTTGGTC CACACCTTTC AGGGTCCGA GGGGTGCTCC GTCTTCATAC GTTTCGTACG TAGAGTTAAT CAGTCGTTGG TATCAGGGCG GGGATTGAGG

Figure 5B

1901 GCCCATCCCC CCCCTAATC CGCCAGTTC CGCCCATCT CCGCCCCATG GCTGACTAAT TTTTATTAT TATGCAGAG CCGAGGCCG CTCGGCTCT
 CGGGTAGGGC GGGGATTGAG GCGGTCAG GCGGGGTAC CCACTGATTA AAAAAATTA ATACGTCTCC GGCTCCGGC GAGCCGGAGA
 2001 GAGCTATTC AGAAGTAGT AGAGGCTTT TTGAGAGCC TAGCTTTTG CAAAAGCTG TTAACAGCTT GGCAGTGGCC GTCGTTTAC AACGTCGTA
 CTCGATTAAG TCTTCATCAC TCCTCCGAAA AACCTCCCG ATCCGAAAAC GTTTTTCGAC AATGTGCA CCGTGACCGG CAGCAAAATG TTGCAGCACT
 start pUC18
 2101 CTGGGAAAAC CTTGGCGTTA CCCACTTAA TCGCCTTGCA GCACATCCCC CTTCCGCAG CTGGCGTAAT AGCGAAGAG CCCGCACCGA TCGCCCTTCC
 GACCTTTTG GAGCCGCAAT GGGTTGAAT AGCGGAACGT CGTGTAGGGG GGAAGCGGTG GACCGCATTA TCGCTTCTCC GGGCGTGCT AGCGGAAAGG
 2201 CAACAGTTGC GTAGCCTGAA TGGCGAATGG CGCCTGATGC GGTATTTTCT CCTACGCAT CTGTGCGTA TTTCACACCG CATACGTCAA AGCAACCATTA
 GTTGCAACG CATCGACTT ACCGCTTACC GCGGACTACG CCATTAAGA GGAATGCCTA GACAGCCAT AAAGTGTGGC GTATGCAATT TCGTTGTAAT
 2301 GTACGCGCCC TGTAGCGGGC CATTAGCGC GCGGGGTGTG GTGTTACGC GCAGCGTGAC CGCTACACTI GCCAGCGCCC TAGCGCCCGC TCCTTTCGCT
 CATGCGCGGG ACATCGCCGC GTAAATCGCG CCGCCACAC CACCAATGCG CGTCGACTG CGGATGTGAA CGGTGCGGG ATCGCGGGC AGGAAAGCGA
 2401 TTCTTCCCTT CCTTCTCGC CACGTTGCGC GGCTTTCCTC GTCAAGCTCT AAATCGGGGG CTCCTTTAG GGTCCGATT TAGTCTTTA CGGCACCTCG
 AAGAAAGGAA GGAAGAGCG GTGCAAGCG CCGAAAGGG CAGTTGAGA TTTAGCCCC GAGGAAATC CCAAGCTAA ATCAGAAAT GCCGTGAGC
 2501 ACCCCAAAA ACTGATTTG GGTATGTT CACGTAGTG GCCATCGCCC TGATAGACGG TTTTTCGCC TTGACGTTG GAGTCCACGT TCTTTAATAG
 TGGGTTTTT TGAATTAAC CCACTACCA GTGCATCAC CGGTAGCGGG ACTATCTGCC AAAAAGCGG AAACGCAAC CTCAGGTGA AGAAATTAATC
 2601 TGGACTCTTG TTCCAACTG GAACAACACT CAACCTATC TCGGGCTAAT CTTTGATTT ATAAAGGATT TTGCCGATT CGGCCTATTG GTTAABAAAT
 ACCTGAAAC AAGTTGAC CTGTGTGA GTTGGATAG AGCCGATTA GAAACTTAA TATTCCTTA AACGCTAA GCCGATAAC CAATTTTAA
 2701 GAGCTGATTT AACAAAAAT TAAAGCGAAT TTAAACAAA TATTACGTT TACAATTTA TGGTGCACTC TCAGTACAAT CTGCTTGAT GCCGATAGT
 CTGACTAAA TTGTTTTAA ATGCGCTTA AATGTTTT ATAAATGCA ATGTAAAT ACCACGTAG AGTCATGTA GACGAGACTA CGCGTATCA
 2801 TAAGCAACT CCGCTATCG TACGTACTG GGTGATGGCT GCGCCCCGAC ACCCGCCAAC ACCCGCTGAC GCGCCCTGAC GGGCTGTCT GCTCCGGCA
 ATTCGTTGA GCGATAGCG ATGCACTGAC CCAGTACCGA CCGGGGGCTG TGGCGGTTG TGGCGACTG CCGGGGACTG CCCGAACAGA CGAGGGCGT
 2901 TCCGCTTACA GACAAGTGT GACGCTCTCC GGGAGCTGCA TGTGTCAGAG GTTTCACCG TCATCACCGA AACGCGGAG GCAGTATCT TGAAGAGAA
 AGCGAATGT CTGTTGACA CTGGCAGAG CCCTGACGT ACACAGTCT CAAAAGTGGC AGTAGTGCT TTGCGGCTC CGTCAATAGA ACTTCTGCTT
 3001 AGGGCTCGT GATACGCTA TTTTATAGG TTAATGTCAT GATTAATTAAT GTTCTTAGA CGTCAGGTG CACTTTTGG GGAATGTGC GCGGAACCC
 TCCCGAGCA CTATGCGAT AAAAATATCC AATTAAGTA CTATTAATAC CAAAGAACT GCAGTCCAC GTGAAGAGC CCTTTACAG CGCTTGGGG

Figure 5C

0918393 100533

3101 TATTGTTTA TTTTCTTAA TACATTCAA TATGTATCCG CTCATGAGAC AATAACCCTG ATAATGCTT CAATAATATT GAAAAAGGA GAGTATGAGT
 ATAACAAT AAAAGATT ATGTAGTTT ATACATAGGC GAGTACTCTG TTATTGGGAC TATTACGA GTATTATTA CTTTCCCT CTCATCTCA
 3201 ATTCACATTT TCCGTGTCG CCTAATCCC TTTTTCGG CATTTGGCT TCCGTGTTT GCTCACCCAG AAACGCTGT GAAAGTAAA GATGCTGAAG
 TAAGTTGTA AGGCACAGCG GGAATAGGG AAAAACGCC GTAAACGGA AGGACAAAA CGAGTGGGT TTTGGACCA CTTTCATTTT CTAGACTTC
 3301 ATCAGTTGGG TGCACGAGTG GGTACATCG AACTGATCT CAACAGCGGT AAGATCCTTG AGAGTTTTCG CCCCAGAGA CGTTTCCAA TGATGAGCAC
 TAGTCAACC ACGTGCTAC CCAATGAGC TTGACCTAGA GTTGTCGCA TTCTAGAAC TCTCAAAAGC GGGGCTTCTT GCAAAAGGT ACTACTCGTG
 3401 TTTTAAAGTT CTGCTATG TGCGGATAT ATCCCGTAT GACGCGGGG AAGAGCACT CGGTGCGCG ATACACTATT CTCAGAATGA CTTGTTGAG
 AAAATTTC A GACGATACAC CGCGCATTA TAGGCACCTA CTGCGGCGG TTCTCGTTGA GCCAGCGGCG TATGTGATTA GAGTCTACT GAACCAACTC
 01 TACTCACCAG TCACAGAAA GCATCTTACG GATGCGATGA CAGTAAGAGA ATTATGAGT GCTGCCATTA CCATGAGTGA TAACACTGCG GCCAACTTAC
 ATGAGTGCT AGTGCTTTT CGTAGAATGC CTACCGTACT GTCACTCTCT TAATACGTCA CGACGATATT GGTACTACT ATTGTGACGC CGGTTGAATG
 3601 TTCTGACAC GATCGGAGGA CCGAAGAGC TAACCGCTTT TTGACACAAC ATGGGGATC ATGTACTCG CCTTGATCGT TGGGAACCG AGCTGAATGA
 AAGACTGTTG CTAGCCTCT GGCCTTCTCG ATTGGCGAAA AAACGTGTG TACCCCTAG TACATTGAGC GGAACTAGCA ACCCTTGCGC TCGACTTACT
 3701 AGCCATACCA AACGACGAG GTGACACCAC GATGCCAGCA GCAATGGCAA CAACGTGCG CAACTATTTA ACTGGCGAAC TACTTACTCT AGCTTCCCGG
 TCGTATGCT TTGCTGCTCG CACTGTGTG CTACGTCGT CGTTACCGTT GTTGCAACGC GTTGATAAT TGACCGCTTG ATGAATGAGA TCGAAAGGCC
 3801 CAACAATTAA TAGACTGGAT GGAGCGGAT AAAGTGCAG GACCACTCT GCGCTCGGCC CTTCGGCTG GCTGTTTAT TGCTGATAAA TCTGAGCCG
 GTTGTAAAT ATCTGACCTA CCTCCGCTTA TTCAACGTC CTGTGAAGA CGCAGCCG GAAAGCCGAC CGACCAATA ACGACTATTT AGACTCGGC
 3901 GTGAGCGTGG GTCTGCGGCT ATCATTGCAG CACTGGGGCC AGATGTAAG CCCTCCCGTA TCGTAGTTAT CTACACGAGC GGGAGTCAGG CAACTATGGA
 CACTGCGACC CAGAGCGCA TAGTAACGTC GTGACCCCG TCTACCATTC GGAAGGCAT AGCATCAATA GATGTGCTGC CCTCAGTCC GTTGATACT
 41 TGAACGAAT AGACAGATCG CTGAGATAGG TGCCTCACTG ATTAAGCATT GGTAACTGTC AGACCAAGTT TACTCATATA TACTTAGAT TGATTAAA
 ACTTGCTTTA TCTGTCTAGC GACTCTATCC ACGGAGTAC TAATTCGTA CCATGACAG TCTGTTCAA ATGAGTATAT ATGAATCTA ACTAAATTT
 4101 CTTCAATTTT AATTAAAG GATCTAGTG AAGATCCTTT TTGATATCT CATGACCAA ATCCCTAAC GTGAGTTTC GTTCACTGA GCGTCAGACC
 GAAGTAAAA TTAATTTT CTAGATCCAC TTCTAGGAAA AACTATTAGA GTACTGTTT TAGGAATG CACTCAAAAG CAAGTGA CTGAGTCTG
 4201 CCGTAGAAAA GATCAAGGA TCTTCTGAG ATCCTTTTT TCTGCGGTA ATCTGCTGCT TGCAACAAG AAAACCAAG CTCACAGCG TGGTTGTT
 GGCATCTTT CTAGTTCT AGAAGAACTC TAGGAAAAA AGACGCGCAT TAGACGACGA ACGTTGTT TTTGGTGCG ACCAAACAAA
 4301 GCCGATCAA GAGTACCAA CTCTTTTCC GAAAGTAACT GGCTTCAGCA GAGCGAGAT ACCAAATACT GTCTTCTAG TGTAGCCGTA GTTAGGCCA
 CGGCCTAGT CTCGATGCT GAGAAAAAG CTTCAATGA CCGAAGTCGT CTCGCGCTTA TGGTTATGA CAGGAAGATC ACATCGCAT CAATCCGCTG

Figure 5D

4401 CACTTCACAGA ACTCTGTAGC ACCGCTTACA TACCTCGCTC TGCTAATCCT GTTACCAGTG GCTGCTGCCA GTGGCGATTA GTCGTGTCTT ACCGGGTTGG
GTGAAGTTCT TGAGACATCG TGGCGATGT ATGAGCGAG ACGATTAGGA CAATGTCTAC CGACGACGGT CACCGCTATT CAGCACAGAA TGGCCCAACC

4501 ACTCAGACG ATAGTTACC GATAAGGCGC AGCGTCCGG CTGAACGGGG GGTTCGTGA CACAGCCAG CTTGAGCGA ACGACCTACA CCGAACTGAG
TGAGTCTGC TATCAATGGC CTATTCCGCG TCGCAGCCC GACTTGCCCC CCAAGCACGT GTGTGGGTC GAACCTCGCT TGCTGATGT GGCCTGACTC

4601 ATACCTACAG CGTGACATT GAGAAAGCGC CACGCTTCCC GAAGGAGAA AGCGGACAG GTATCCGGTA AGCGGACAGG TCGGAACAGG AGAGCGCAG
TATGATGTC GCACCTGTAA CTCTTCGCG GTGCGAAGG CTTCCTCTT TCCGCTGTC CATAGGCCAT TCGCCGTCC AGCCTGTCC TCTCGCGTC

4701 AGGAGCTTC CAGGGGAAA CGCCTGTAT CTTTATAGTC CTGTGGGTT TCGCCACCTC TGACTTGAGC GTCGATTTT GTGATGCTCG TCAGGGGGC
TCCCTCGAAG GTCCCCCTT GCGGACCATA GAAATATCAG GACAGCCCAA AGCGGTGAG ACTGAACCTCG CAGCTAAAA CACTACGAGC AGTCCCCCG

4801 GGAGCTATG GAAAAACGCC AGCAACGCG CTTTTTACG GTTCCTGGCC TTTTGCTGGC CTTTGTCTCA CATGTTCTT CCTGCTTAT CCCCTGATTC
CCTCGGATAC CTTTTCGCG TCGTTGCGC GAAAAATGC CAAGGACCG AAAACGACCG GAAAAAGAT GTACAGAAA GGACGCAATA GGGGACTAAG

4901 TGTGATAC CGTATTACC CTTTGAAGT AGCTGATACC GCTCGCCGCA GCCGAACGAC CGAGCGCAGC GAGTCAGTGA GCGAGGAAC GGAAGGCGC
ACACCTATTG GCATAATGGC GGAACCTAC TCGACTATGG CGAGCGCGT CGGCTGTCTG GCTCGCGTCTG CTGAGTCACT CGCTCCTTCG CCTTCTGCG

5001 CCAATACGCA AACCGCTCT CCCCCGCGT TGGCCGATTC ATTAATCCAG CTGGCAGAC AGGTTTCCC ACTGAAAAC GGGCAGTGA CGCAACGCA
GGTTATGCG TTGGCGGAGA GGGCGCGCA ACCGCTAAG TAATTAAGTC GACCGTCTG TCCAAGGGC TGACCTTTCG CCGTCACTC GCGTTCGCT

5101 TTAATGTAG TTACCTACT CATTAAGCAC CCCAGCTT ACACCTTATG CTTCGCGCTC GTATGTTGTG TGGAAITGTG AGCGATTAAC AATTTCACAC
AATTACACTC AATGAGTGA GTAATCCGTG GGTCCGAAA TGTGAATAC GAAAGCCGAG CATACAAAC ACCTTAACAC TCGCCTATTG TTAAGTGTG

5201 AGGAACAGC TATGACCATG ATTAAGAATT AATTGAGCT CGCCGACAT TGAATTAAGA CTAGTTAATTA ATAGTAATCA ATTACGGGGT CATTAATTCA
TCCCTTGTG ATACTGGTAC TAATGCTTAA TTAAGCTCGA GCGGCTGTA ACTAATACT GATCAATAAT TATCATTAAT TAATGCCCA GTAATCAAGT

from pMLCMV beginning to HindIII, enhancers and promoter

5301 TAGCCCATAT ATGAGTTC GCGTTACATA ACTTACGGTA AATGCCCCG CTGCTGACC GCCCAACGAC CCCCCCCAT TGACGTCAAT AATGACGTAT
ATCGGTATA TACCTCAAG CGCAATGTAT TGAATGCCAT TTACCGGGCG GACCGACTGG CGGTTGCTG GGGCGGGTA ACTGCACTTA TTACTGCATA

5401 GTTCCCATAG TAACGCCAAT AGGACTTTC CATGACGTC AATGGTGA GTAATTACGG TAAACTGCC ACTTGCAAT ACATCAAGTG TATCATATGC
CAAGGTATC ATGCGGTTA TCCTGAAAG GTAATGCAG TTACCCACTT CATTAATGCC ATTGACGGG TGAACGTCA TGTAGTTAC ATAGTATACG

5501 CAAGTACGCC CCCTAATGAC GTCAATGACG GTAATGGCC CGCCTGGCAT TATGCCAGT ACATGACCTT ATGGACTTT CCTACTTGGC AGTACATCTA
GTTCATGCGG GGGATTAATG CAGTTACTGC CATTTACCGG GCGGACCGTA ATACGGGTCA TGTACTGAA TACCCTGAAA GGATGAACCG TCATGTAGAT

Figure 5E

09 15 23 23 1 00 23 23

